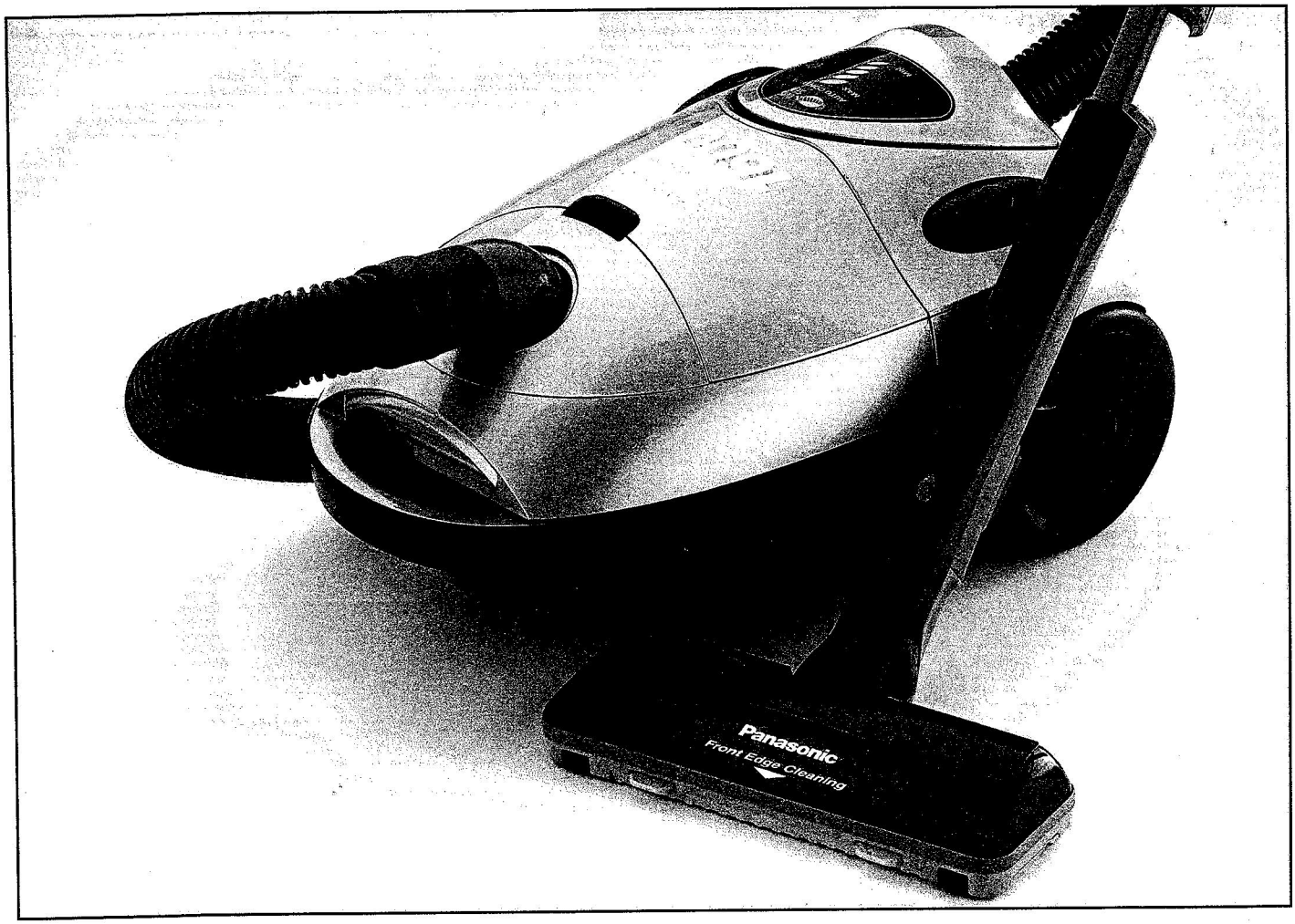
Ref.: Z32R0000

Service Manual

Vacuum Cleaner

MODELS MC-E1000, MC-E1010
MC-E1000K, MC-E1010K



■ SPECIFICATIONS

	MC-E1000 MC-E1000K	MC-E1010 MC-E1010K
Power source	AC230-240V 50Hz	AC230-240V 50Hz
Input power	350-1600W	350-1600W
Water lift	21,6 kPa	21,6 kPa
Cord length	7.5 m	7.5 m
Radio of operation	10.2 m	10.2 m
Net weight	8.7 kg	8.9 kg
Dimensions (LxWxH) mm	460x313x253	460x313x253
Attachments:		
Turbine nozzle	•	
Motorized nozzle		•
Telescopic tube	•	
Powered telescopic tube		•
Dusting brush	•	•
Crevice nozzle	•	•
Upholstery nozzle	•	•

Specifications are subject to change without notice for further improvement.

Panasonic

Matsushita Electric España, S.A.
DIVISIÓN DE ASPIRADORAS
Zona Industrial del Polígono de CELRÀ
17460 CELRÀ (Girona) SPAIN

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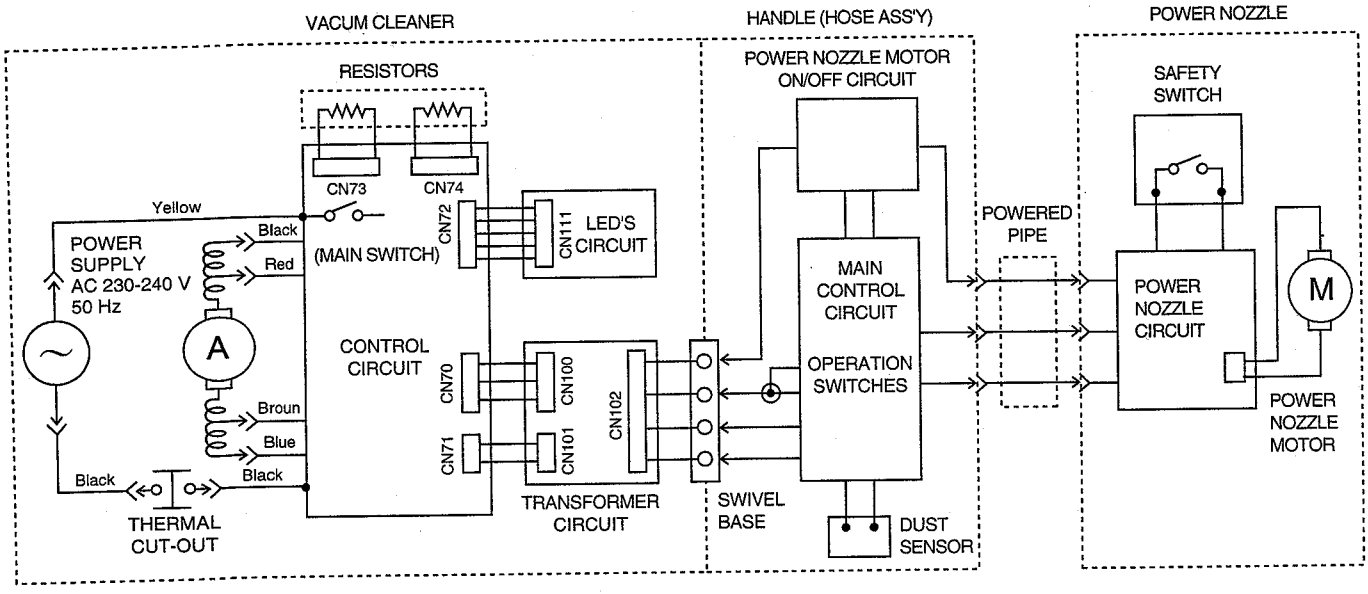
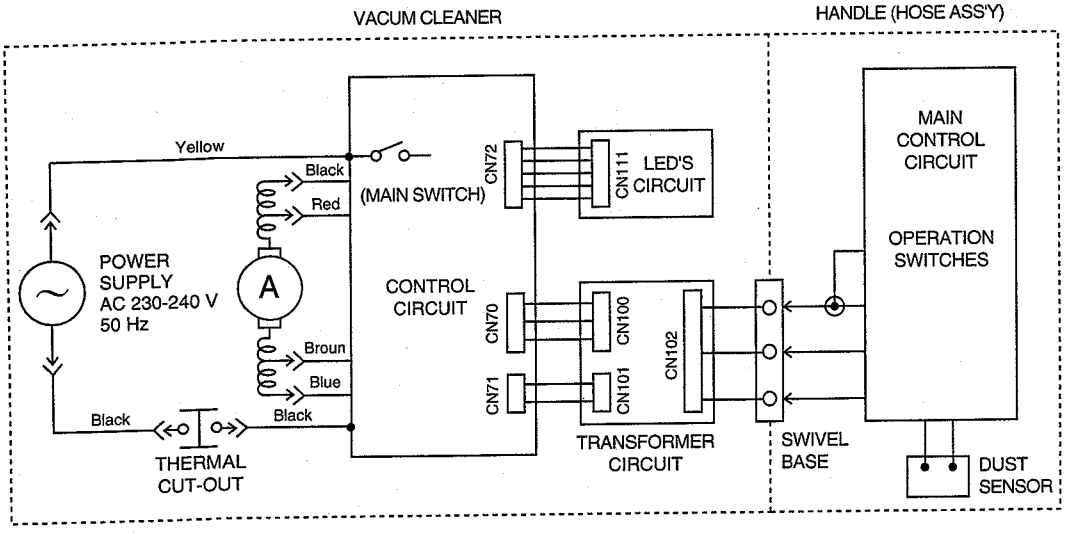
■ SCHEMATIC DIAGRAM

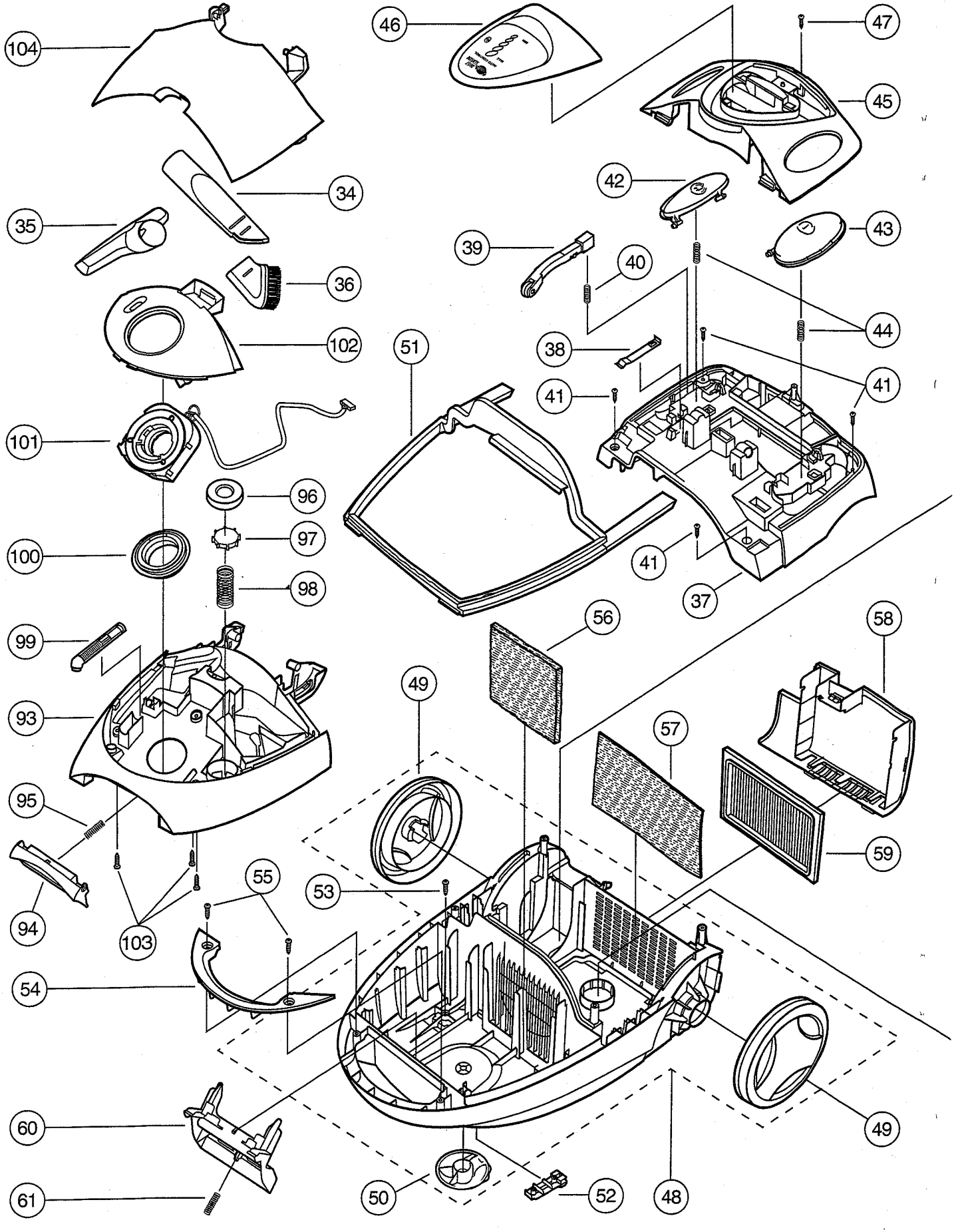
MC-E1010 / MC-E1010K



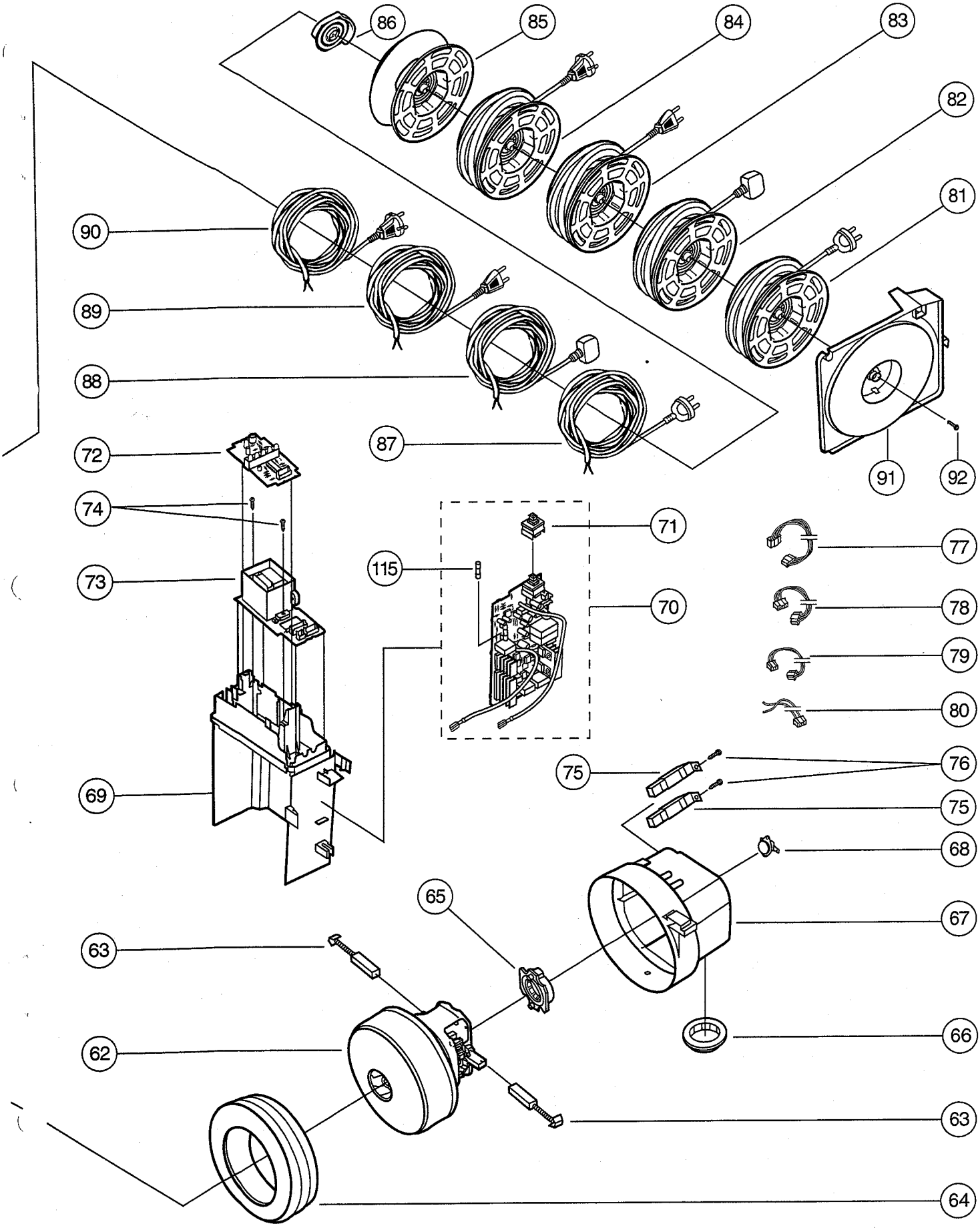
MC-E1000 / MC-E1000K



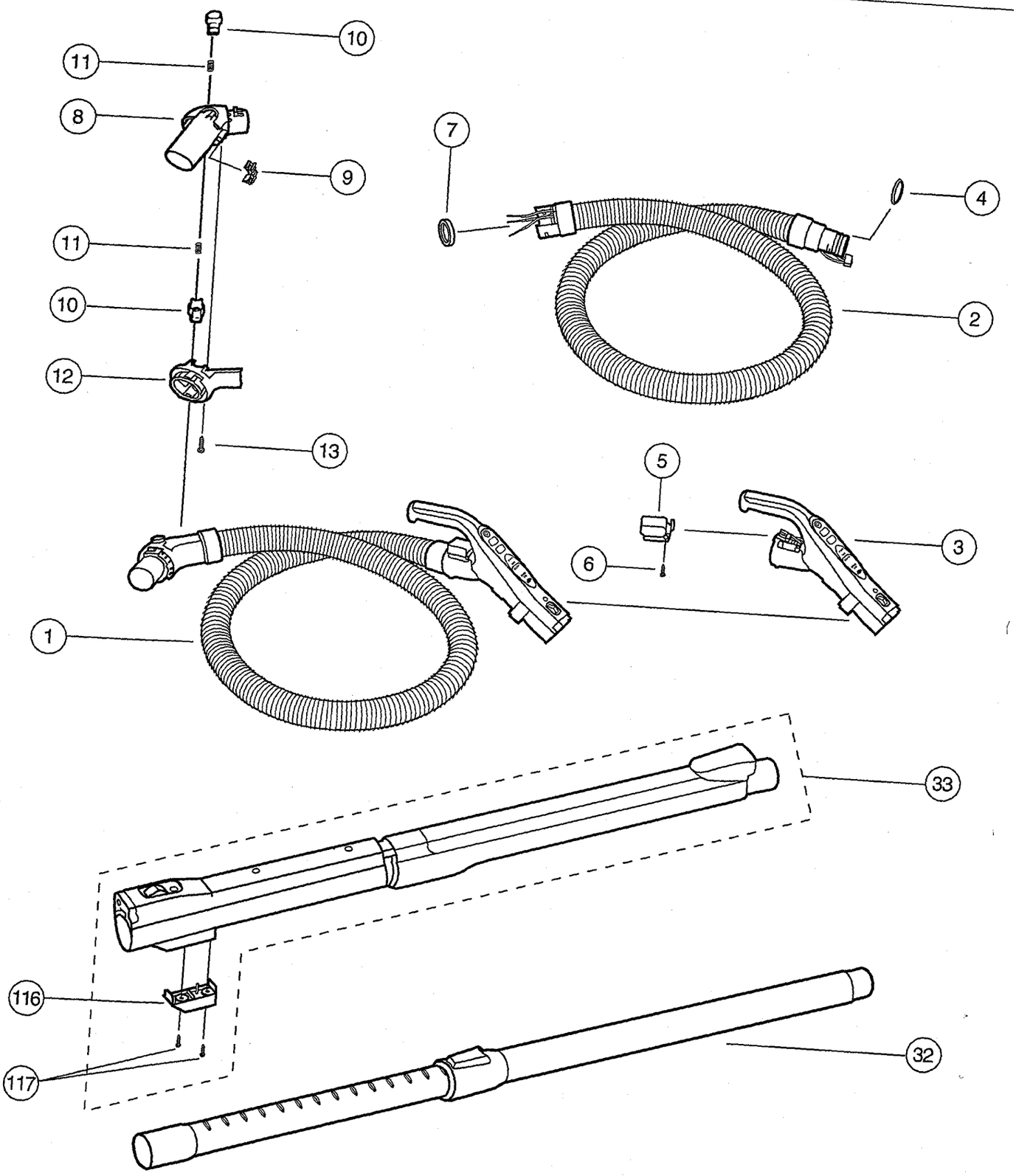
■ EXPLODED VIEW



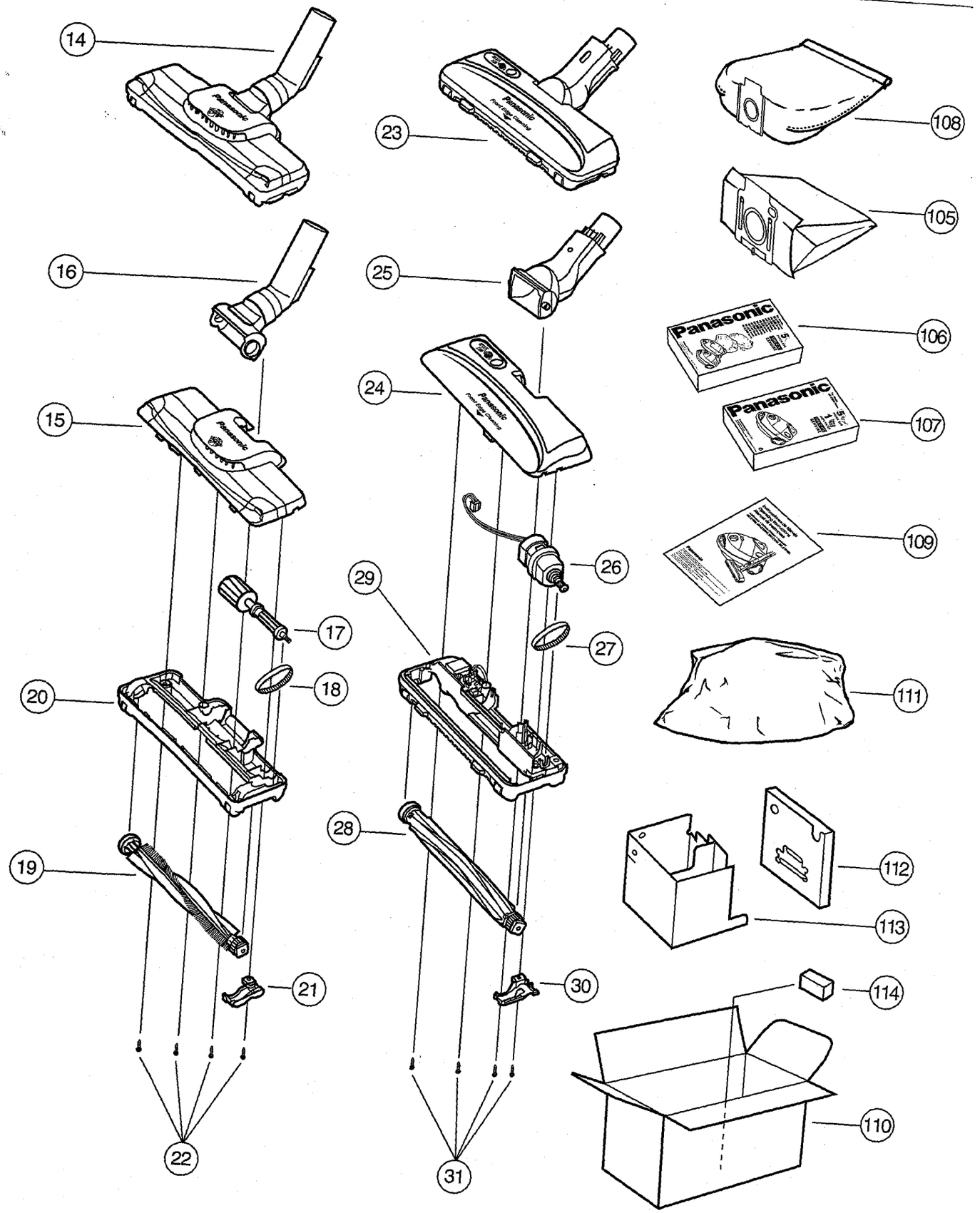
■ EXPLODED VIEW



■ EXPLODED VIEW



■ EXPLODED VIEW



■ SPARE PARTS LIST

REF. No.	DESCRIPTION	PART No.	Pcs/Set	MC-E1000 MC-E1000K	MC-E1010 MC-E1010K	Applied for all countries (✓)	REMARKS
1	HOSE UNIT	AMC8A92R0034	1	•		✓	
	HOSE UNIT	AMC8A92R1034	1		•	✓	
2	SEMI-HOSE ASS'Y	AMC8AZ9R0034	1	•		✓	
	SEMI-HOSE ASS'Y	AMC8AZ9R1034	1		•	✓	
3	CURVED TUBE ASS'Y	AMC8A94R0038	1	•		✓	
	CURVED TUBE ASS'Y	AMC8A94R1038	1		•	✓	
4	SEAL CURVED TUBE	AMC8C42R0000	1	•	•	✓	
5	COVER SPRING	AMC8P43R0038	1	•	•	✓	
6	TAPPING SCREW	XTN3+08I	-	•	•	✓	
7	JOINT RETENTION	AMC8C15R0000	1	•	•	✓	
8	CONNECTION TUBE	AMC8A02R0034	1	•	•	✓	
9	TERMINALS SUPPORT	AMC8D36R0034	1	•	•	✓	
10	HOOK FOR HOSE	AMC8A03A1034	2	•	•	✓	
11	SPRING	AMC8F30E1000	2	•	•	✓	
12	HOOK COVER	AMC8A05R0034	1	•	•	✓	
13	TAPPING SCREW	XTN4+12B	1	•	•	✓	
14	TURBINE NOZZLE	AMC8A99F8034	1	•		✓	
15	FLOOR NOZZLE COVER	AMC8A28F8034	1	•		✓	
16	NOZZLE PIPE ASS'Y	AMC8A79F8034	1	•		✓	
17	TURBINE NOZZLE ASS'Y	AMC8A81R0000	1	•		✓	
18	DRIVE BELT	AMC8R15R0000	1	•		✓	
19	ROTARY BRUSH ASS'Y	AMC8R98R0000	1	•		✓	
20	BASE PLATE ASS'Y	AMC8AZ3R0000	1	•		✓	
21	BELT COVER	AMC8R16R0000	1	•		✓	
22	TAPPING SCREW	XTN4+12B	4	•		✓	
23	MOTORIZED NOZZLE	AMC8A99R1034	1		•	✓	
24	FLOOR NOZZLE COVER	AMC8A28R1034	1		•	✓	
25	NOZZLE PIPE ASS'Y	AMC8A79R1034	1		•	✓	
26	FLOOR NOZZLE MOTOR	AMC8E94R1000	1		•	✓	
27	DRIVE BELT	AMC8R15R1000	1		•	✓	
28	ROTARY BRUSH ASS'Y	AMC8R98R1000	1		•	✓	
29	BASE PLATE ASS'Y	AMC8AZ3R1000	1		•	✓	
30	BELT COVER	AMC8R16R1000	1		•	✓	
31	TAPPING SCREW	XTN4+14B	4		•	✓	
32	TELESCOPIC TUBE	AMC8A85R0000	1	•		✓	
33	POWERED TELESCOPIC TUBE	AMC8A85R1000	1		•	✓	
34	CREVICE NOZZLE	AMC8A13P1034	1	•	•	✓	
35	UPHOLSTERY NOZZLE	AMC8A27P1034	1	•	•	✓	
36	DUSTING BRUSH	AMC8A97P1034	1	•	•	✓	
37	UPPER BODY (Greenish colour)	AMC8C01P10P1	1	•		✓	
	UPPER BODY (Silver colour)	AMC8C01P10P0	1		•	✓	
38	DUST COVER SPRING	AMC8T46P1000	1	•	•	✓	
39	BRAKE LEVER UNIT	AMC8P96P1000	1	•	•	✓	
40	BRAKE SPRING	AMC8P2201000	1	•	•	✓	
41	TAPPING SCREW	XTN4+18B	4	•	•	✓	
42	CORD REEL PEDAL	AMC8T13P1034	1	•	•	✓	
43	SWITCH PEDAL	AMC8T14P1034	1	•	•	✓	
44	SPRING	AMC8P2201000	2	•	•	✓	
45	PEDAL COVER (Greenish colour)	AMC8T05P11P1	1	•		✓	
	PEDAL COVER (Silver colour)	AMC8T05P11P0	1		•	✓	
46	CONTROL PANEL ASS'Y	AMC8M81R00P1	1	•		✓	
	CONTROL PANEL ASS'Y	AMC8M81R10P0	1		•	✓	
47	TAPPING SCREW	XTN4+18B	1	•	•	✓	
48	LOWER BODY ASS'Y	AMC8C99P1034	1	•	•	✓	

■ SPARE PARTS LIST

REF. No.	DESCRIPTION	PART No.	Pcs/Set	MC-E1000 MC-E1000K	MC-E1010 MC-E1010K	Applied for all countries (✓)	REMARKS
49	WHEEL	AMC8R01P1034	2	•	•	✓	
50	CASTER	AMC8R99D1034	1	•	•	✓	
51	DUST COVER SEAL	AMC8T04P1034	1	•		✓	
52	FLOOR NOZZLE HOOK	AMC8C25L1034	1	•	•	✓	
53	TAPPING SCREW	XTN4+18B	1	•	•	✓	
54	HANDLE COVER (Greenish colour)	AMC8T23P10P1	1	•		✓	
	HANDLE COVER (Silver silver)	AMC8T23P10P0	1		•	✓	
55	TAPPING SCREW	XTN4+18B	2	•	•	✓	
56	CENTRAL FILTER	AMC8F03D1100	1	•	•	✓	
57	REAR FILTER	AMC8T09P1000	1	•	•	✓	
58	EXHAUST COVER	AMC8T07P1034	1	•	•	✓	
59	HEPA FILTER TYPE F-4H	AMC8F28R0000	1	•	•	✓	
60	PAPER BAG CLAMP	AMC8F02P1034	1	•	•	✓	
61	SPRING	AMC8F30L1000	1	•	•	✓	
62	MOTOR SDS-1604ET	AMC81SG04ET0	1	•	•	✓	
63	CARBON BRUSH	AMC8130C9801	2	•	•	✓	
64	FRONT MOTOR SUPPORT	AMC8E08P1000	1	•	•	✓	
65	REAR MOTOR SUPPORT	AMC8E0971000	1	•	•	✓	
66	REAR MOTOR SUPPORT	AMC8E09A1100	1	•	•	✓	
67	MOTOR COVER	AMC8E10R0000	1	•	•	✓	
68	THERMAL CUT-OUT	AMC8E1401200	1	•	•	✓	
69	BODY COVER	AMC8C22P1000	1	•	•	✓	
70	POWER CONTROL CIRCUIT	AMC8D89R0000	1	•	•	✓	
71	MAIN SWITCH	AMC8E01P1000	1	•	•	✓	
72	LED CIRCUIT	AMC8E88R0000	1	•		✓	
	LED CIRCUIT	AMC8E88R1000	1		•	✓	
73	TRANSFORMER CIRCUIT	AMC8E86R0000	1	•	•	✓	
74	TAPPING SCREW	XTN3+08B	2	•	•	✓	
75	CERAMIC RESISTOR	ERF20HLJ301	2		•	✓	
76	TAPPING SCREW	XTN4+12B	2		•	✓	
77	5 WIRES + 2 CONNECTORS	AMC8W19R0000	1	•	•	✓	
78	3 WIRES + 2 CONNECTORS	AMC8W20R0000	1	•	•	✓	
79	2 WIRES + 2 CONNECTORS	AMC8W21R0000	1	•	•	✓	
80	2 WIRES + 1 CONNECTOR	AMC8W22R1000	2		•	✓	
81	CORD REEL UNIT	AMC8PZ3R0000	1	•	•		Applied to Australia, N.Zealand
82	CORD REEL UNIT	AMC8PZ1R0000	1	•	•		Applied to UK, Ireland
83	CORD REEL UNIT	AMC8P88R0000	1	•	•		Applied to Italy, Switzerland, Portugal.
84	CORD REEL UNIT	AMC8P97R0000	1	•	•		Applied to East European countries & West countries except the above indicated.
85	CORD REEL	AMC8P90P1000	1	•	•	✓	
86	RAIL BASE UNIT	AMC8P93L1000	1	•	•	✓	
87	POWER CORD SUPPLY (7.5 m)	AMC8EZ3R0061	1	•	•		Applied to Australia, N.Zealand
88	POWER CORD SUPPLY (7.5 m)	AMC8EZ1R0061	1	•	•		Applied to UK, Ireland
89	POWER CORD SUPPLY (7.5 m)	AMC8E98R0061	1	•	•		Applied to Italy, Switzerland, Portugal.
90	POWER CORD SUPPLY (7.5 m)	AMC8E97R0061	1	•	•		Applied to East European countries & West countries except the above indicated.
91	CORD REEL SUPPORT UNIT	AMC8P91P1000	1	•	•	✓	
92	TAMPER-PROOF SCREW	XTT4*16C	1	•	•	✓	Needed a screwdriver type TORK T 20 H
93	DUST COVER (Greenish colour)	AMC8T01P10P1	1	•		✓	
	DUST COVER (Silver colour)	AMC8T01P10P0	1		•	✓	
94	BACKLE (Greenish colour)	AMC8T03P10P1	1	•		✓	
	BACKLE (Silver colour)	AMC8T03P10P0	1		•	✓	
95	SPRING	AMC8T19D1000	1	•	•	✓	
96	VALVE SUPPORT	AMC8I22P1064	1	•	•	✓	

■ SPARE PARTS LIST

REF. No.	DESCRIPTION	PART No.	Pcs/Set	MC-E1000 MC-E1000K	MC-E1010 MC-E1010K	Applied for all countries (✓)	REMARKS
97	VALVE	AMC8I07L1034	1	•	•	✓	
98	VALVE SPRING	AMC8I09R0000	1	•	•	✓	
99	DUST INDICATOR	AMC8I99P3000	1	•	•	✓	
100	DUST BAG SEAL	AMC8F05P1000	1	•	•	✓	
101	SWIVEL BASE ASS'Y	AMC8T87R0034	1	•		✓	
	SWIVEL BASE ASS'Y	AMC8T87R1034	1		•	✓	
102	FRONT COVER (Greenish colour)	AMC8T11P10P1	1	•		✓	
	FRONT COVER (Silver colour)	AMC8T11P10P0	1		•	✓	
103	TAPPING SCREW	XTN4+18B	3	•	•	✓	
104	ACCESSORIES LID (Greenish colour)	AMC8T25R00P1	1	•			For all countries except UK
	ACCESSORIES LID (Greenish colour)	AMC8T25R01P1	1	•			Only to UK
	ACCESSORIES LID (Silver colour)	AMC8T25R10P0	1		•		For all countries except UK
	ACCESSORIES LID (Silver colour)	AMC8T25R11P0	1		•		Only to UK
105	PAPER BAG TYPE C-15C	AMC8F01L1100	2	•	•	✓	
106	PAPER BAG PACK / TYPE C-15C	AMC8F96L1000	-	•	•	✓	5/u. detachable bags (with close system)
	PAPER BAG PACK / TYPE C-2E	AMC8F96D1300	-	•	•	✓	5/u. detachable bags
107	PAPER BAG PACK / TYPE C-2E	AMC8F88P1000	-	•	•	✓	5/u. detachable bags +1/u. Electrostatic S-Class filter
	PAPER BAG PACK / TYPE C-15C	AMC8F88R0000	-	•	•	✓	5/u. detachable bags +1/u. HEPA filter
108	CLOTH DUST BAG / REUSABLE TYPE	AMC8F9931300	-	•	•	✓	Optional
109	OPERATING INSTRUCTIONS	AMC8Z07R0010	1	•	•	Depend on	language: Spanish, English, Dutch, German, Italian, French
	OPERATING INSTRUCTIONS	AMC8Z07R0030	1	•	•	Depend on	language: Swedish, Danish, Finish, Norwegian, Portuguese, Greek
110	CARTON BOX	AMC8Z01R0000	1	•		✓	
	CARTON BOX	AMC8Z01R1000	1		•	✓	
111	SET COVER	AMC8Z05P1000	1	•	•	✓	
112	CUSHION A	AMC8Z02R0000	1	•	•	✓	
113	CUSHION B	AMC8Z03R0000	1	•	•	✓	
114	CUSHION SUPPLEMENT	AMC8Z09P1000	1	•	•	✓	
115	FUSE	AMC8B42R0000	1	•	•	✓	
116	REAR NOZZLE HOOK	AMC8C37F2038	1		•	✓	
117	TAPPING SCREW	XTN4+12B	2		•	✓	

■ REPLACEMENT OF MAIN PARTS

IMPORTANT: Before replacing any part always DISCONNECT THE CLEANER FROM THE ELECTRICITY SUPPLY.

- **MOTOR / CARBON BRUSHES**

(1) Motor

1. Remove 1 screw from the pedal cover and take it out. (Fig. 1)
2. Disconnect swivel base lead wire from the transformer circuit (Fig. 2)

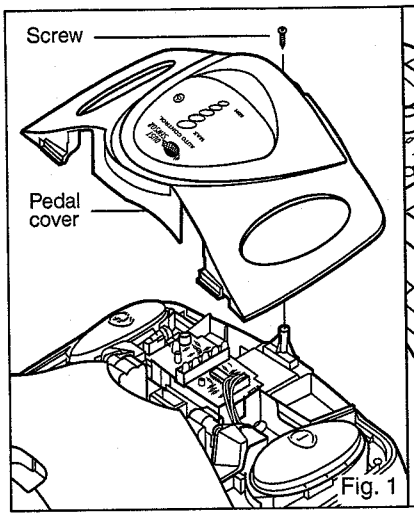


Fig. 1

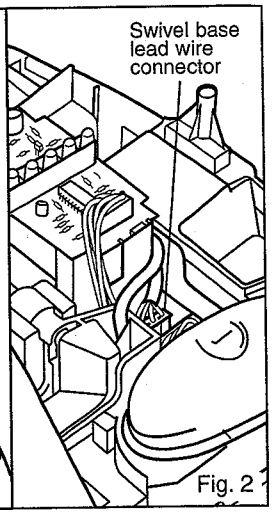


Fig. 2

3. Remove dust cover ass'y prising on its support with a flat-head screwdriver. (Fig. 3)

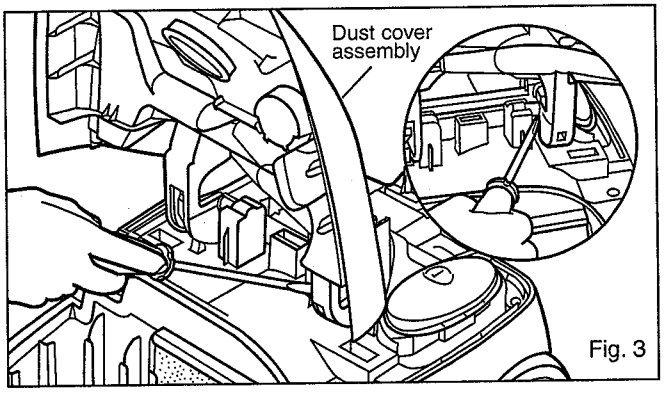


Fig. 3

4. Take out exhaust cover . Then remove 4 screws from upper body and take it out. (Fig. 4)

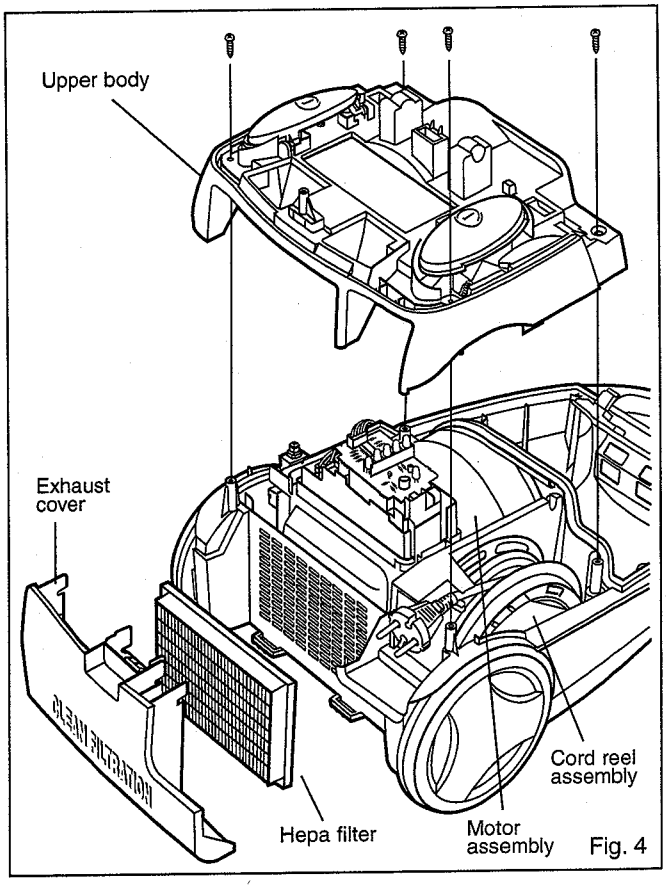


Fig. 4

■ REMPLACEMENT OF MAIN PARTS

5. Remove two wires (provided with quick-connect terminal) from the contact springs and take out cord reel ass'y. (Fig. 5)

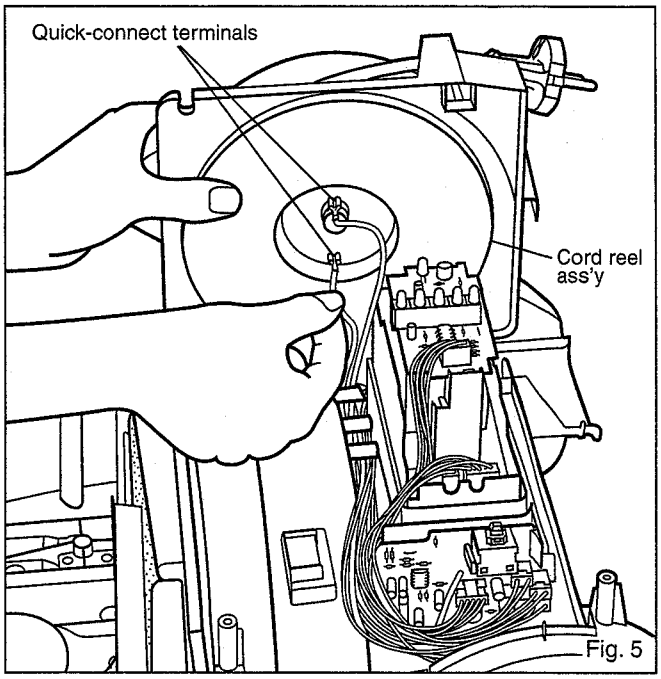


Fig. 5

6. Take out motor ass'y, remove motor cover and disconnect the wires (provided with quick-connect terminals) from the carbon brush halder tab terminals. (Fig. 6)

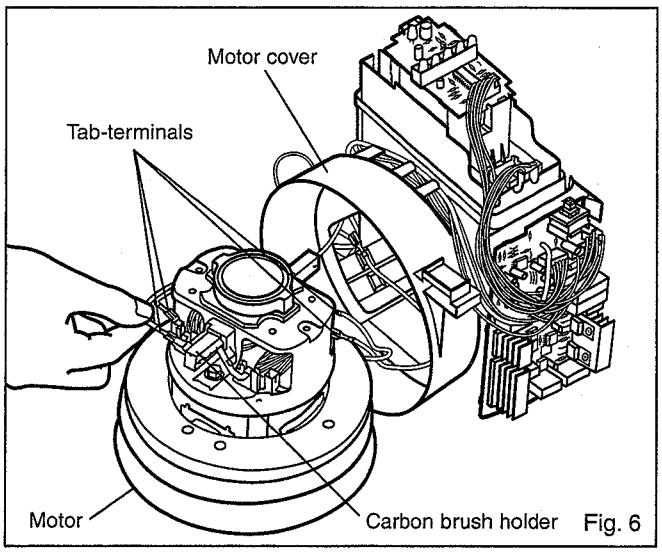


Fig. 6

7. Remove front and rear motor supports. (Fig.7)
8. Replace the motor with a new one and connect the wires according to the schematic diagram.
9. Reassemble front and rear motor supports and motor cover. **Note:** Adjust the position of the rear motor support on the proper motor position.
10. Place motor ass'y and body cover into the lower body, connect the wires according to the schematic diagram and reassemble the remaining parts in the reverse order.

Note: Before assembling pedal cover be sure the swivel base lead wire is properly placed in order to avoid be caught (see. Fig. 2)

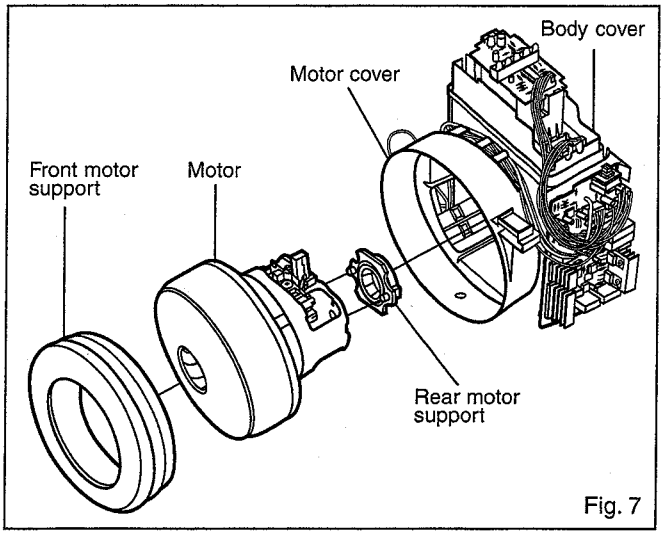
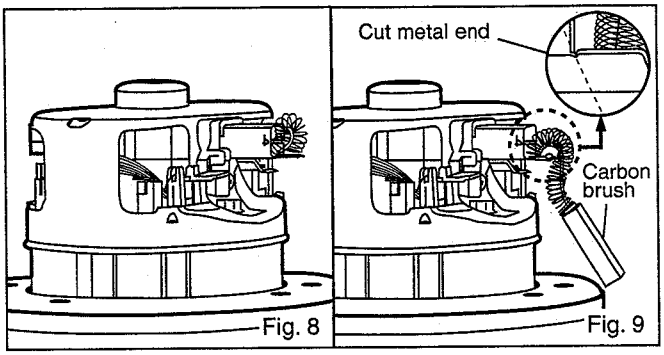


Fig. 7

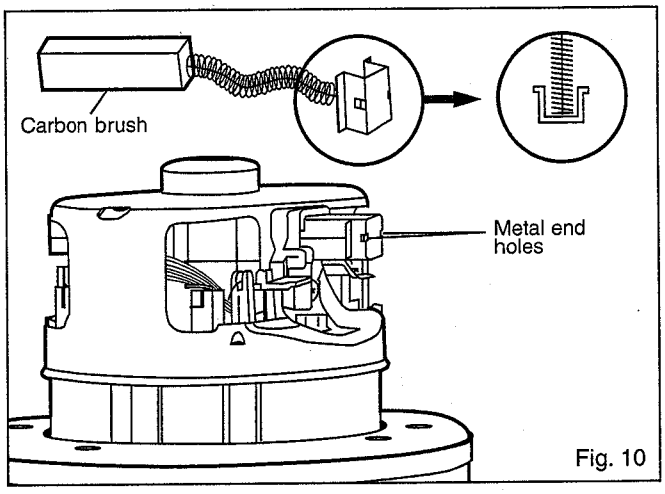
■ REPLACEMENT OF MAIN PARTS

(2) Carbon brushes
NOTE: Replace both carbon brushes at the same time.

1. Take out motor ass'y and remove motor cover as explained in paragraph (1) Motor, points 1-6.
2. Bend the metal end of the carbon brush holder and take out the carbon brush. (Fig. 8)
3. Cut off the metal end of the carbon brush. (Fig. 9)

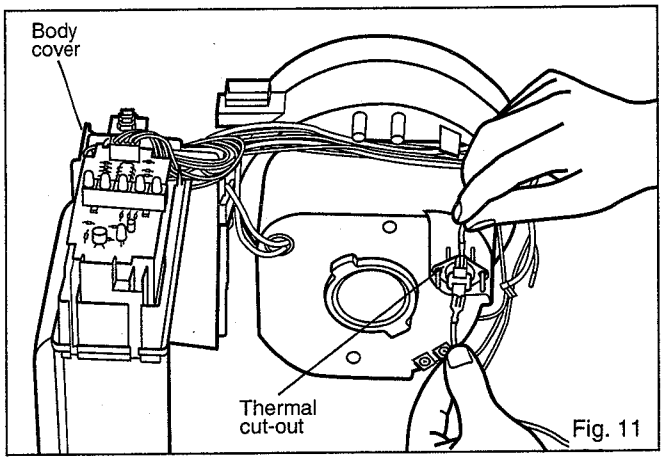


4. Insert a new carbon brush and push it until the protruded pins of the brush holder fix into the holes of the metal end. (Fig. 10)
5. Connect the wires according to the schematic diagram and reassemble the remaining parts in the reverse order.



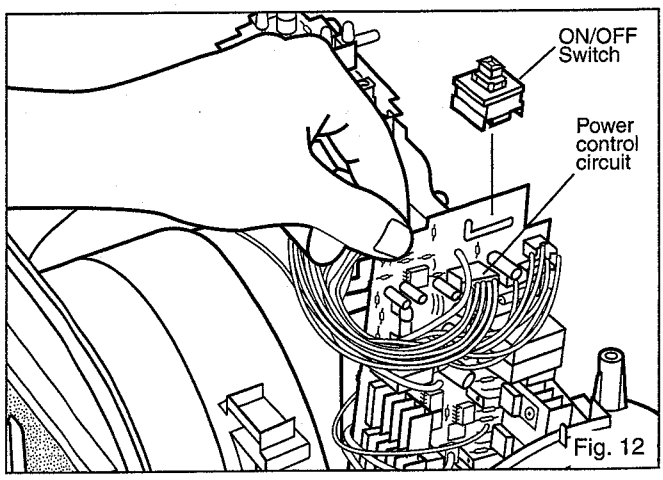
• THERMAL CUT-OUT

1. Remove upper body and cord reel ass'y as explained in paragraph (1) Motor , points 1-5.
2. Take out motor ass'y and put aside body cover.
3. Remove thermal cut-out from its lodging and disconnect the two wires (provided with quick-connect terminal) from the two tabs. (Fig. 11)
4. Replace thermal cut-out with a new one, connect the wires according to the schematic diagram and reinstall it through its guides.
5. Place motor ass'y and body cover into the lower body, connect the wires according to the schematic diagram and reassemble the remaining parts in the reverse order.



• ON / OFF SWITCH

1. Remove upper body and cord reel ass'y as explained in paragraph (1) Motor, points 1-5.
2. Take out body cover and remove power control circuit from its fastening points.
3. Remove ON/OFF switch from the power control circuit and replace with a new one. (Fig. 12)
4. Reinstall power control circuit and place body cover and cord reel ass'y into lower body. Connect wires according to the schematic diagram and reassemble the remaining parts in the reverse order.



■ REPLACEMENT OF MAIN PARTS

• POWER CONTROL CIRCUIT / LED's CIRCUIT / TRANSFORMER CIRCUIT

(1) Power control circuit

1. Remove upper body and cord reel ass'y as explained in paragraph (1) Motor, points 1-5.
2. Take out body cover and release power control circuit from its fastening points. (Fig. 13)
3. Remove wires from power control circuit and replace the circuit with a new one.
4. Reinstall power control circuit, connect the circuit wires according to the schematic diagram and reassemble the remaining parts in the reverse order.

Note: Grasp the circuit wires with a fastener to avoid touching the circuit refrigerators.

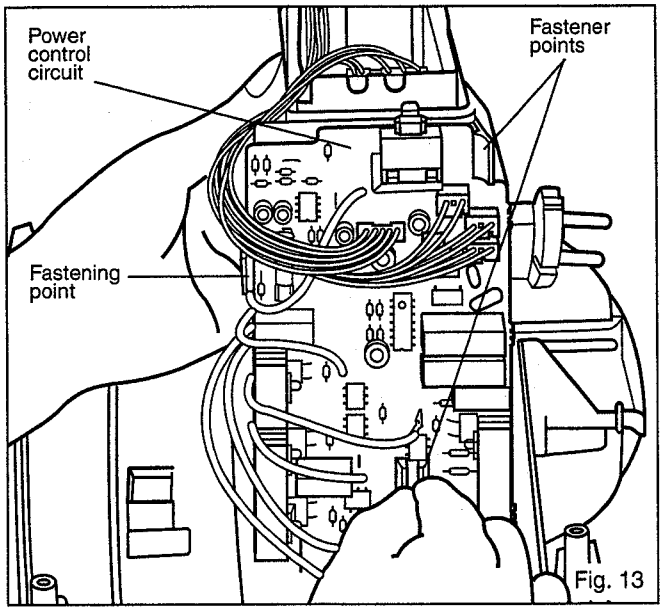


Fig. 13

(2) LED's circuit

1. Remove pedal cover as explained in paragraph (1) Motor, point 1.
2. Remove wires connector from the LED's circuit and replace the circuit with a new one. (Fig. 14)
3. Reinstall new LED's circuit, connect according to the schematic diagram and reassemble the remaining parts in the reverse order.

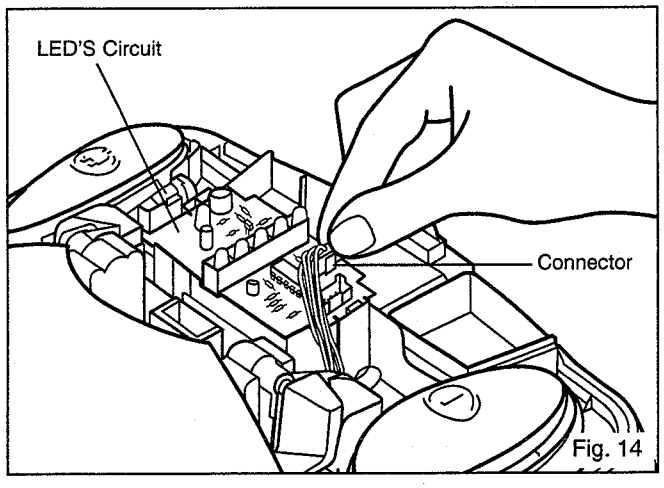


Fig. 14

(3) Transformer circuit

1. Remove pedal cover as explained in paragraph (1) Motor, points 1.
2. Release LED's circuit from the support and put it aside.
3. Remove two screws and connections from the transformer circuit. (Fig.15)
4. Replace transformer circuit with a new one and reinstall it.
5. Connect according to the schematic diagram reassemble the remaining pats in the reverse order.

Note: Before assembling pedal cover be sure the swivel base lead wire is properly placed in order to avoid be caught (see. Fig. 2)

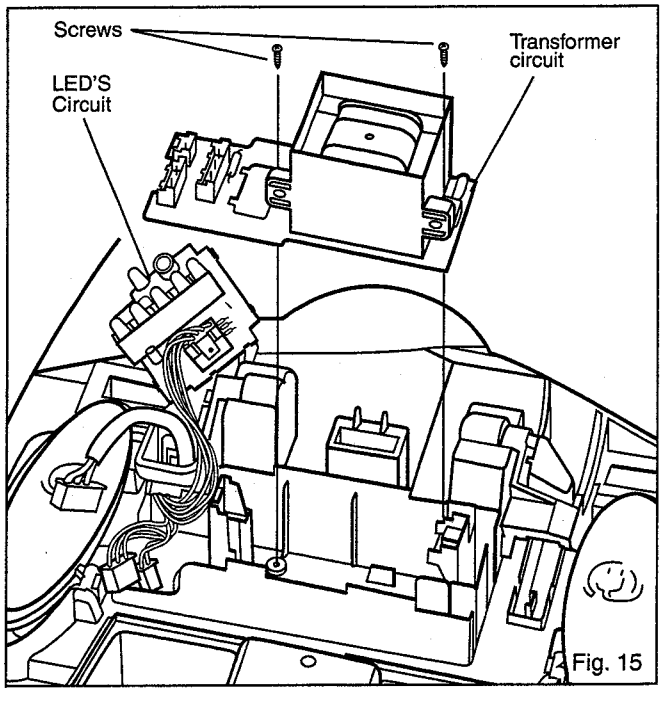


Fig. 15

■ REPLACEMENT OF MAIN PARTS

CERAMIC RESISTOR (Only MC-E1010, MC-E1010K)

1. Remove upper body and cord reel ass'y as explained in paragraph (1) Motor, points 1-5.
2. Take out body cover and motor ass'y . Put body cover aside and remove the damaged resistor replacing with a new one. (Fig. 16)
3. Reinstall the resistor and connect wires according to the shematic diagram. Then reassemble the remaining parts in the reverse order.

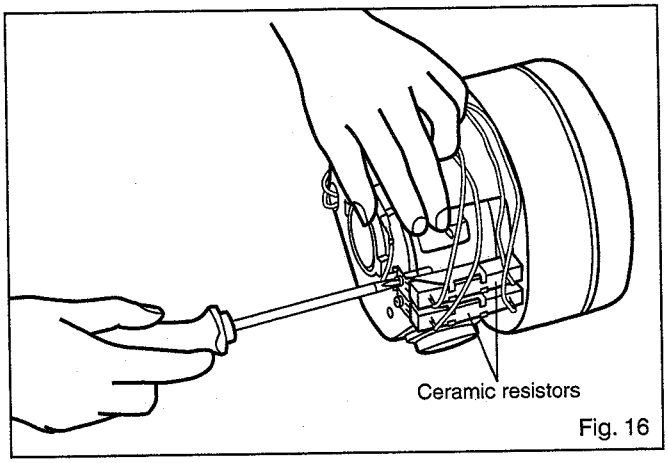


Fig. 16

• CORD REEL UNIT / POWER CORD

(1) Cord reel unit

1. Remove upper body and cord reel ass'y as explained in paragraph (1) Motor, 1.5.
2. Unwind the power cord to release the cord reel spring. Then remove the screw from the cord reel support. (Fig. 17)

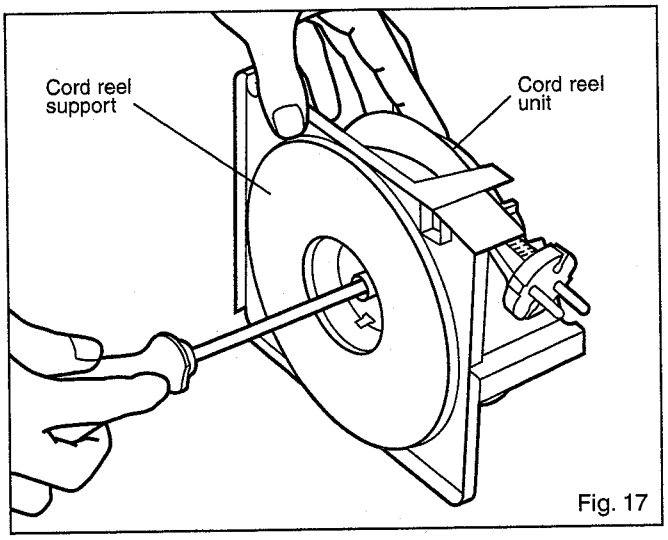


Fig. 17

3. Separate cord reel unit from the cord reel support. (Fig. 18)
4. Replace cord reel unit with a new one and reassemble with the cord reel support. Then refasten the screw.
   NOTE: Wind up the power cord the extra times indicated on the spring plate to maintain spring efficiency.
5. Connect wires according to the schematic diagram and reinstall the cord reel ass'y into place. Then reassemble the remaining parts in the reverse order.

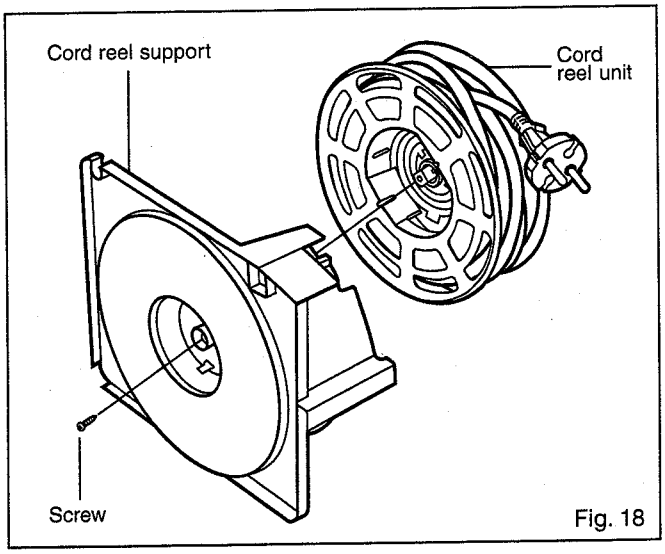


Fig. 18

■ REPLACEMENT OF MAIN PARTS

(2) Power cord supply

1. To replace the power cord supply, follow the disassembling process described in paragraph (1) Cord reel unit, points 1-3.
2. Unwind the total power cord length from the cord reel.
3. Press and release the stopper on the cord reel and lift the rail base by pushing the lower end. (Fig. 19)

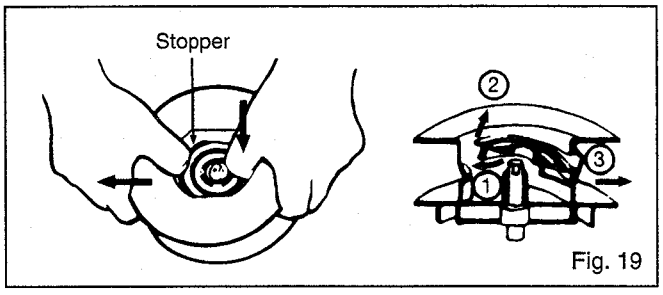


Fig. 19

4. Remove power cord from the rail base and replace with a new one.
   NOTE: Observe the colour of the power cord wires before reinstalling the new one. (Fig. 20)
5. Insert the rail base through the cord reel slot. (Fig. 21)
   NOTE: Put Vaseline on the rail base before assembling the cord reel support.
6. Wind up the total power cord length in the arrow direction as indicated on the spring plate.
7. Reassemble cord reel unit and cord reel support. Then wind up the power cord the extra times indicated on the spring plate to maintain spring efficiency.
8. Connect the wires according to the schematic diagram and reinstall the cord reel assembly into place. Then reassemble the remaining parts in the reverse order.

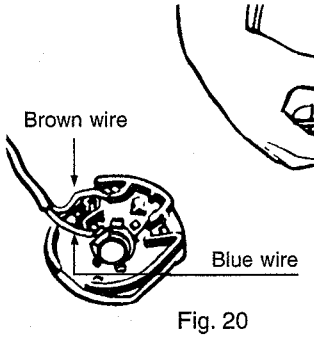


Fig. 20

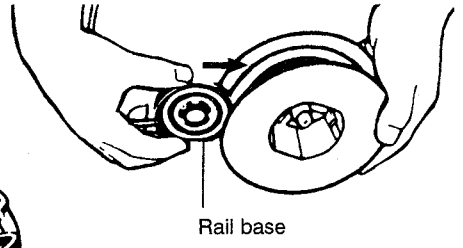


Fig. 21

• BRAKE LEVER UNIT

1. Remove upper body as explained in paragraph (1) Motor, points 1-4.
2. Take out cord reel pedal prising on its shaft with a flat-head screwdriver. (Fig. 22)

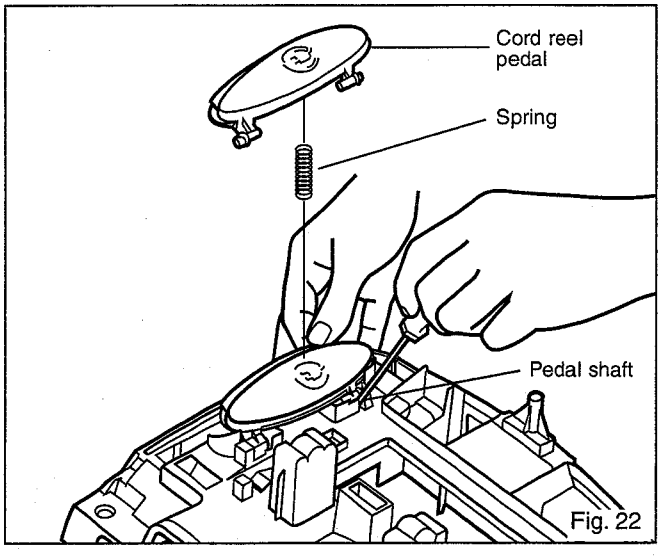


Fig. 22

4. Release brake lever unit prising on its shaft with a flat-head screwdriver and pushing it up underneath. (Fig. 23)
5. Replace the brake lever unit with a new one and reinstall it. Then reassemble the remaining parts in the reverse order.

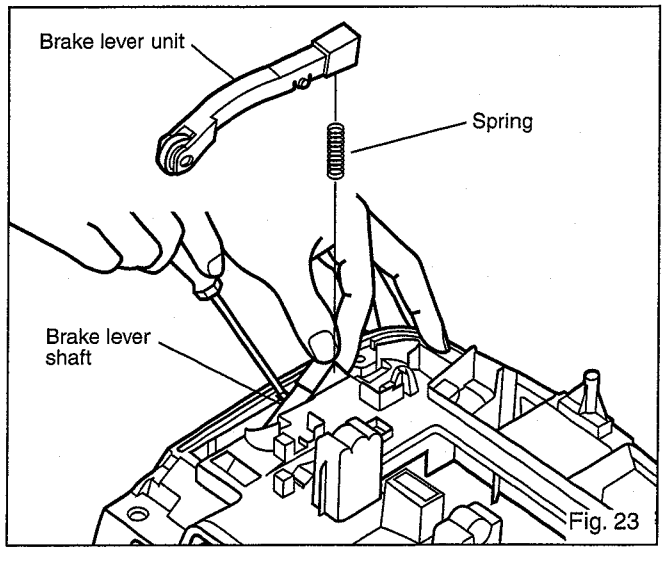


Fig. 23

■ REPLACEMENT OF MAIN PARTS

SWIVEL BASE UNIT

1. Remove pedal cover and disconnect swivel base lead wire as explained in paragraph (1) Motor, points 1-2.
2. Remove 3 screws from frontal cover . (Fig. 24)

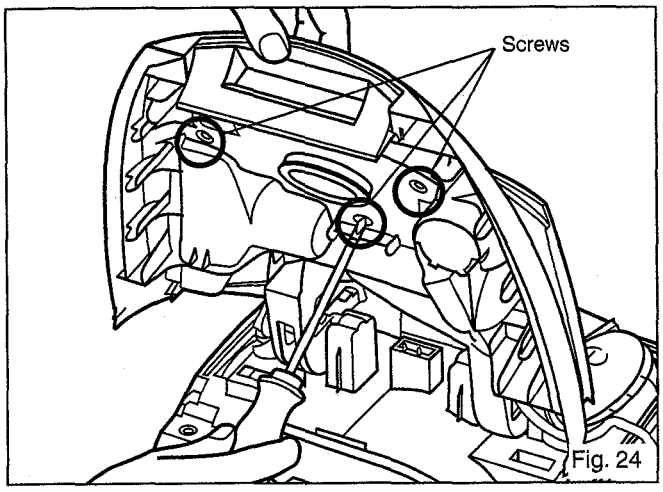


Fig. 24

3. Remove swivel base unit and replace with a new one. (Fig. 25)

   Note: Please observe swivel base lead wire posicion, before removing it.

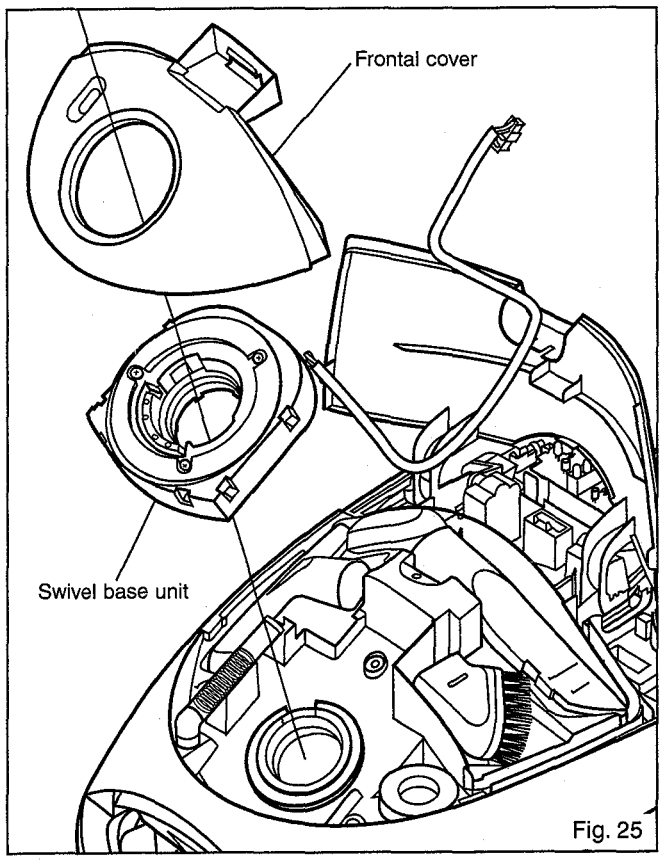


Fig. 25

4. Reinstall swivel base unit and reassemble the remaining parts in the reverse order. (Fig. 26)

   Note: Make sure the swivel base lead wire is correctly fitted.

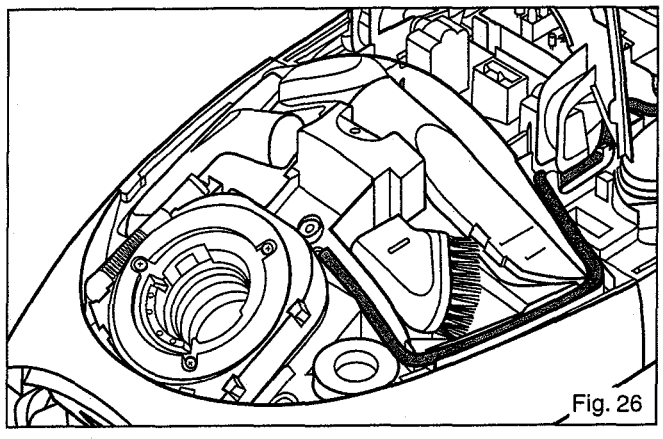


Fig. 26

■ REPLACEMENT OF MAIN PARTS

• FLOOR NOZZLE

(1) Rotary brush

1. Remove 1 screw from the belt cover and take it out. (Fig.27)

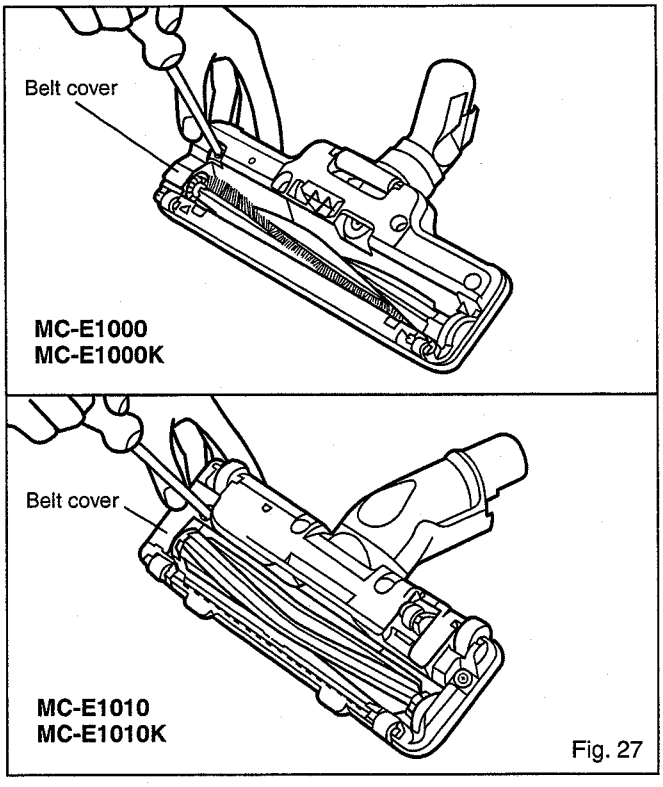


Fig. 27

2. Take out rotary brush and replace with a new one. (Fig. 28)
3. Reinstall rotary brush and reassemble the remaining parts in the reverse order.
   NOTE: Make sure both rotary brush ends are correctly placed in the housing, and the belt is properly positioned around rotary brush end and shaft.

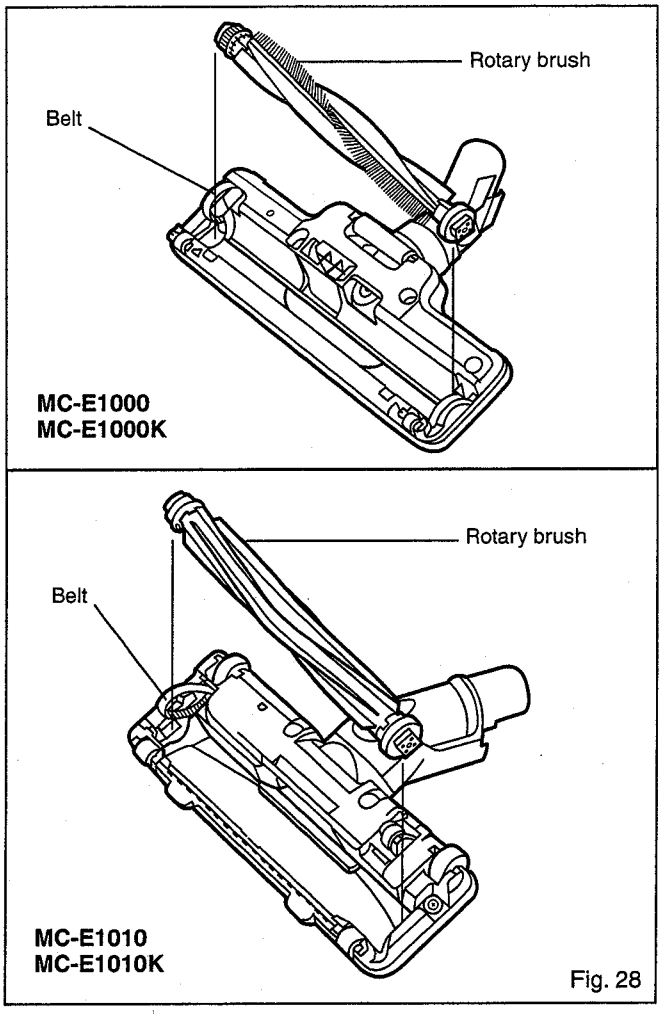


Fig. 28

■ REPLACEMENT OF MAIN PARTS

(2) Belt

1. Remove belt cover and rotary brush as explained in paragraph (1) Rotary brush, points 1-2.
2. Remove 3 screws from the nozzle base plate. (Fig. 29)

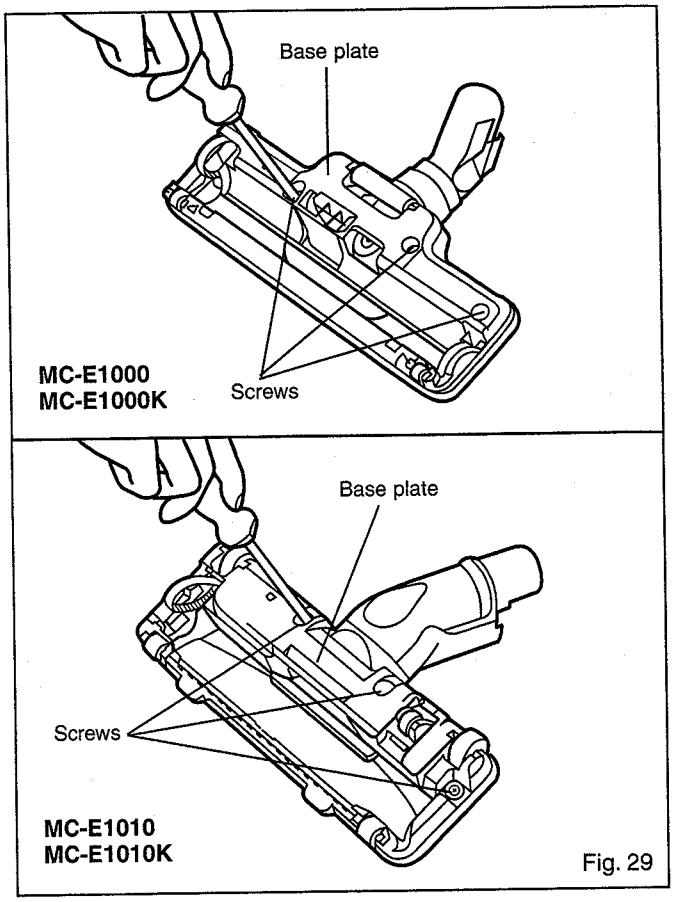


Fig. 29

3. Release the three fastening points from the nozzle cover with a flat -head screwdriver . (Fig. 30)

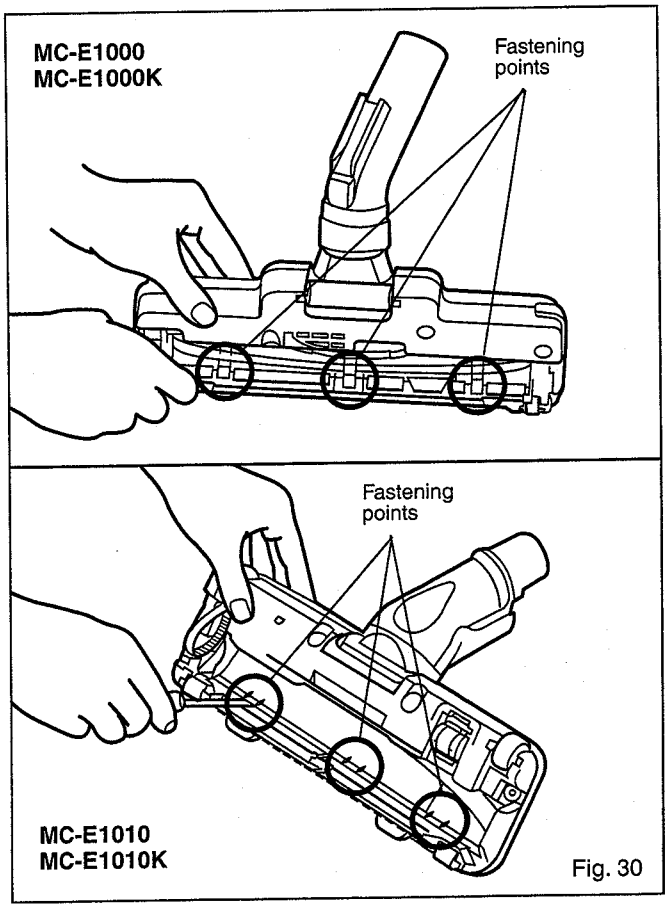
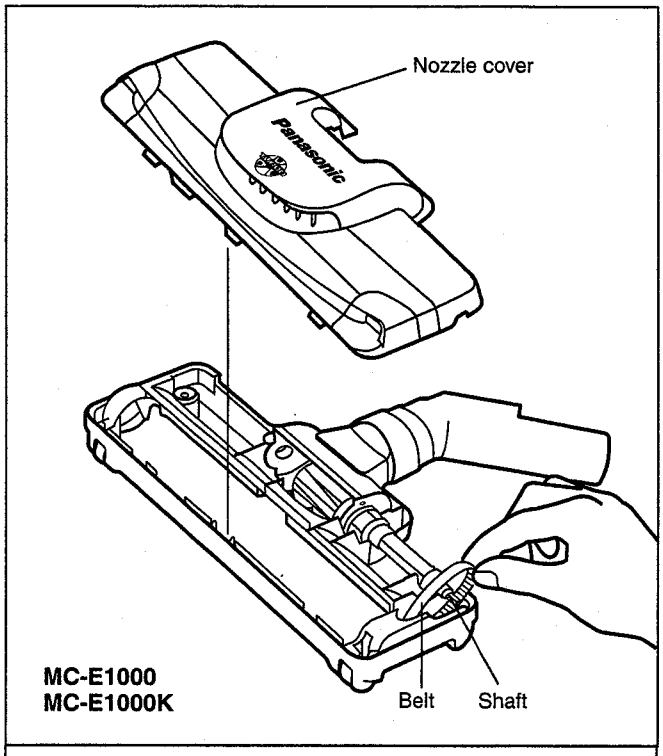


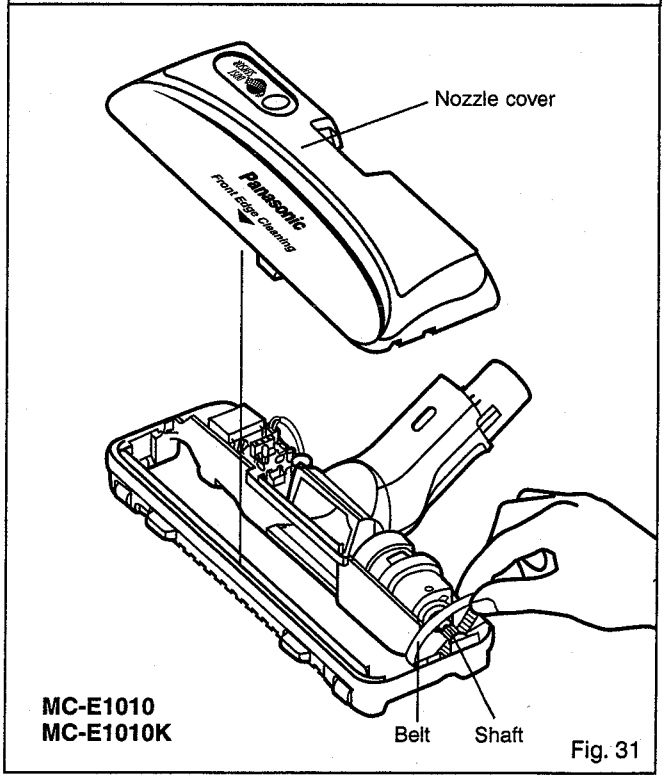
Fig. 30

■ REPLACEMENT OF MAIN PARTS

4. Turn it over and remove the nozzle cover.
5. Release the belt from the shaft and replace with a new one. (Fig. 31)
6. Reinstall the belt and reassemble the remaining parts in the reverse order.
   NOTE: Make sure the belt is properly positioned around the shaft.



MC-E1000
MC-E1000K



MC-E1010
MC-E1010K

Fig. 31

■ REPLACEMENT OF MAIN PARTS

(3) Motor (only MC-E1010, E1010K)

1. To replace the motor follow the disassembling process described in paragraph (2) Belt, points 1-4.
2. Remove the motor connection from the circuit board. (Fig. 32)
3. Remove the belt from the motor shaft and replace the motor with a new one.
4. Reinstall the motor and connect to the circuit board. Then reassemble the remaining parts in the reverse order.

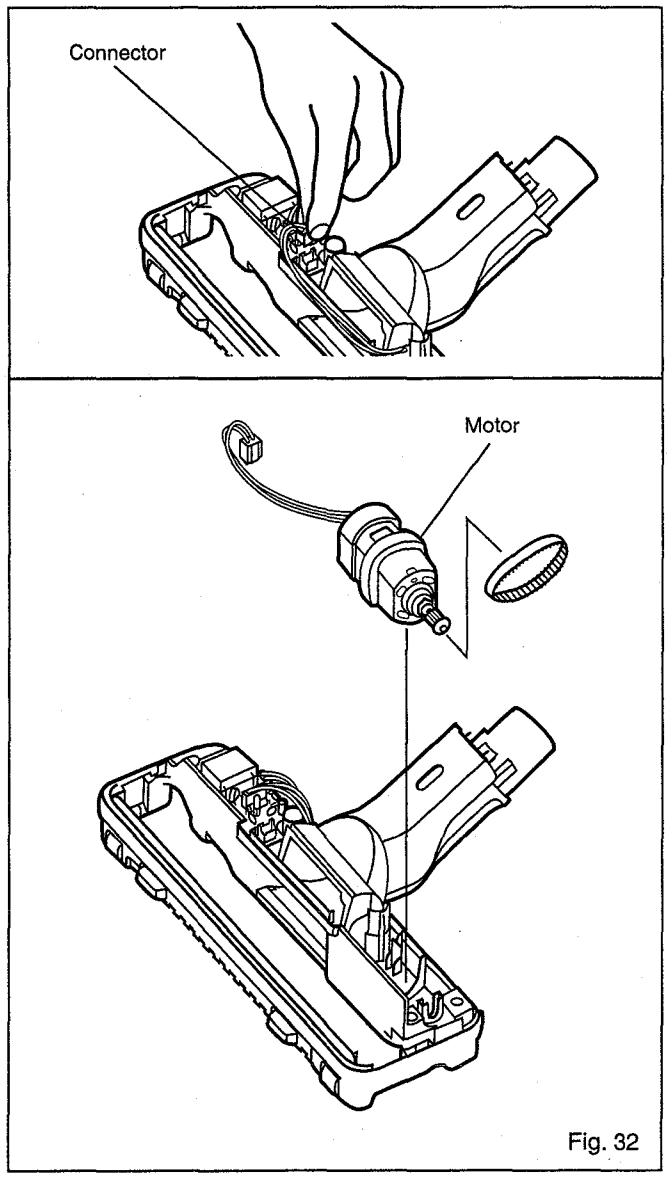
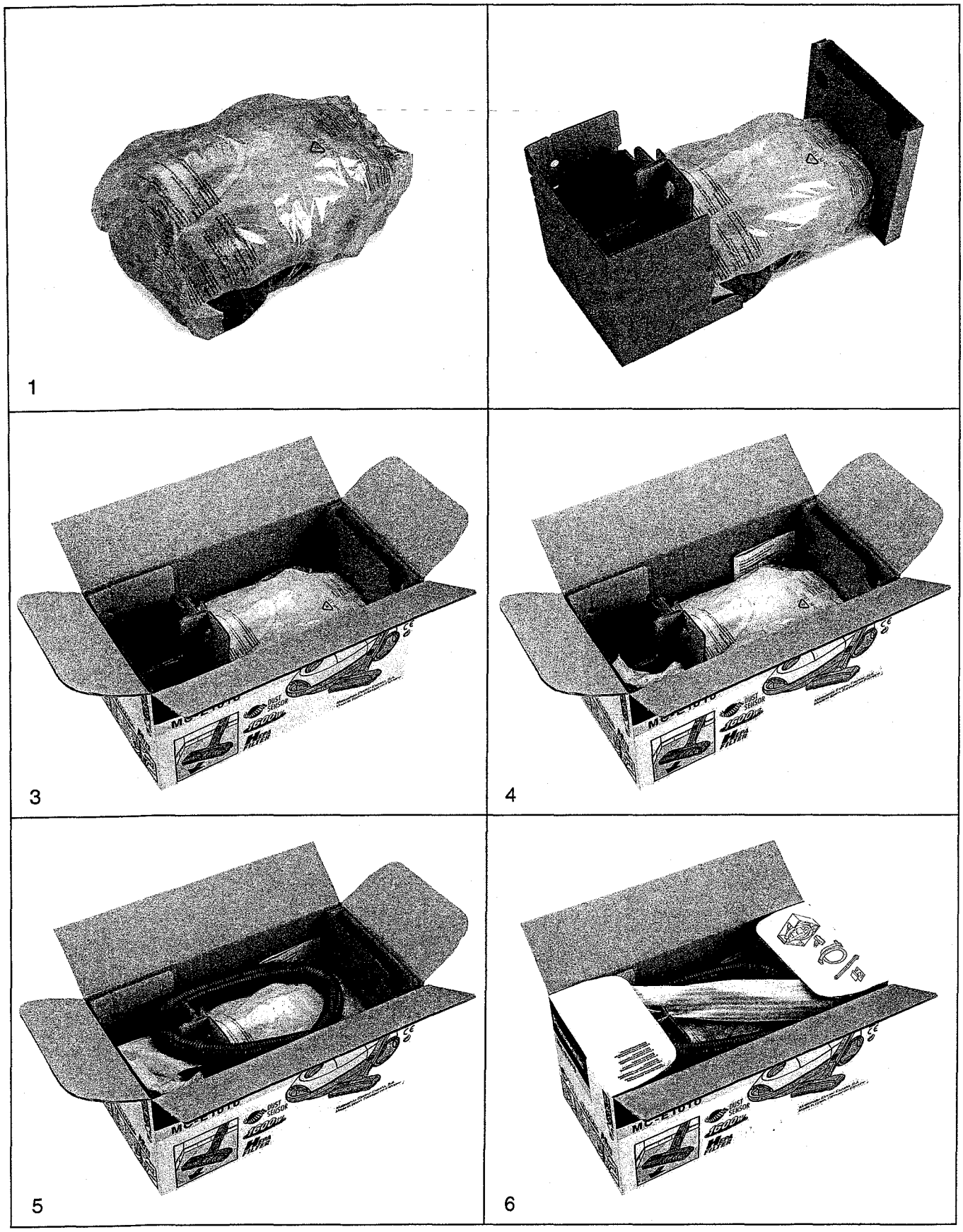


Fig. 32

■ TROUBLE SHOOTING GUIDE

CONDITION	CHECKPOINT	METHOD OF INSPECTION	CAUSE / REMEDY
Motor fails to rotate. (no noise is heard at all)	Power cord connection	Check power cord continuity between plug pins and base contact.	If there is no continuity, replace the power cord.
	Motor continuity	Check motor continuity.	If there is no continuity, replace it.
	Carbon brushes	Check if there is gap between carbon brush and conmutator.	If there is gap between carbon brushand conmutator, replace both carbon brushes.
		Check the contact between carbon brush and conmutator.	If the contact is not correct, replace the motor.
	ON/OFF Switch	Check continuity across switch connections.	If there is no continuity, replace it.
	Thermal cut-out	Check continuity across thermal cut-out terminals.	If there is no continuity, replace it.
	Hose ass'y	Press either button (hose handle) and check if suction power changes.	If it doesn't change, replace the hose ass'y.
	Power control circuits (C49VNH000) (C79WNH000) (C52VNH000)	Check connections between circuits.	If the connections are correct, replace the circuits.
		Check possible break of circuit boards, bad soldering, pattern crack, fuse cut and bad triac.	If there is any trouble, replace them.
		Check continuity between wires and connector.	f the continuity is correct, replace the circuits.
	Fuse (ref.: ET, T500mA,250V)	Check fuse continuity.	If there is no continuity, replace it and check it works. (Note: If after having replaced the fuse the vacuum cleaner doessn't work or it does just for a moment, replace power control circuit.
	Swivel base	Check swivel base lead wire continuity.	If there is no continuity, replaces wivel base ass'y.
Motor runs but does not suction.	Hose or Suction inlet	Check if there is any blockage in the hose or suction inlet.	If there is any blockage, remove it.
	Dust bag / Central filter	Check if dust bag is full or dust accumulated in central filter.	If the paper bag is full, replace it. If the central filter is dirt, clean or replace it.
Noise or vibration.	Motor fan	Check dust accumulated in motor fan (it could happen if the vacuum cleaner has been used with a broken bag or without central filter).	If there is dust accumulated in motorf an, replace the motor and check filter condition. (never try to dismantle the motor fan).
	Carbon brushes	Check uneven wear of carbon brushes.	If there is uneven wear, replace both carbon brushes.
Rotary brush does not rotate.	Belt	Remove floor nozzle base plate and check if the belt is broken or loose.	If the belt is broken, replace it. If loose, reinstall it.
	Power nozzle motor	Check nozzle motor continuity.	If there is no continuity, replace the nozzle motor.
		Check contact between carbon brush and conmutator.	If the contact is not correct, replace the nozzle motor.
	Power nozzle switch	Check if nozzle switch actuates in operating position.	If it doesn't, turn it over and remove possible dust acumulated. If after removing the dust it doesn't work, replace base plate ass'y.
	Powered telescopic tube	Connect power nozzle and hose ass'y directly (without powered telescopic tube), and check if nozzle rotary brush rotates.	If nozzle rotary brush rotates, replace powered telescopic tube.
	Hose ass'y	Connect power nozzle and hose asss'y directly (without powered telescopic tube), and check if nozzle rotary brush rotates.	If nozzle rotary brush does not rotate, replace hose ass'y.
	Swivel base	Check swivel base lead wire continuity.	If there is no continuity, replace swivel base ass'y.
Dust sensor (GREEN light remains on even the carpet is dirty).	Hose ass'y	Check if hose inlet is clogged.	If there is any obstruction, remove it.
		Check dirt sticking on the dust sensors (hose curved pipe).	Clean stuck dirt from the dust sensors.
Motor does not stop after pushing stand -by button.	Power control circuit (C49VNH000)	Check if vacuum cleaner works after removing the hose.	If vacuum cleaner works, replace power control circuit.
	Hose ass'y	Check if vacuum cleaner works after removing the hose.	If vacuum cleaner doesn't work, replace the hose ass'y.
Motor runs irregularly.	Swivel base	Check dust accumulated in suction inlet of vacuum cleaner.	If after removing the dust accumulated, the vacuum cleaner doesn't work, replace the swivel base.
Suction power does not change after sucking up dust.	Hose ass'y	Check dirt sticking in the dust sensors (hose curved pipe).	If after clean stuck dirt from the dust sensors, suction power doesn't change, replace the hose ass'y.
		Press either button from (hose curved pipe) and check if suction power changes.	If suction power doesn't change, replace the hose ass'y.

■ PACKING INSTRUCTIONS



1030012

10337

Service Manual

Vacuum Cleaner

Supplementary

DATE: January '00
NO. : SC- 230S
SUBJECT: FUSE (Power control circuit)
MODEL: MC-E1000, MC-E1010
MC-E1000K, MC-E1010K

Parts change notice

Please revise the original Spare Parts List in the SERVICE MANUAL to conform the change(s) shown herein. If new part(s) number are shown, be sure to use them when ordering parts.

Ref.no	Description	Actual Part No.	New Part No.	Pcs/set	Remarks
115	FUSE	AMC8B42R0000	-------	1	Fuse Approved by SEMKO to EN60127-2 Standard sheet 3, rated T500mA 250V (time lag)

IMPORTANT: In case you have to replace the fuse, be sure to use a replacement of same type and rated as above described (ref. no. 115).

NOTE: Please file this Supplementary with the original SERVICE MANUAL Ref.: Z32R0000.

Panasonic

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17460 Celrà (Girona) España